

3) Achire Transport - wes ATP to PUMP indecures Organizer concegnations · Caused at 64 - specific mom proteing bonne diff. proving in memb.

play a major we in 60h Protein using energy

Protein Jos aburave 3 sensitive to
Specific (Likeen 24 mes)

Clikeen 24 mes

Side chains. like fae ion a Gonder homonal regulation (Connolled) PLANT- WATER RELATIONS. essential for physioclogical activities

Plays imp tole in all living org.

provides medium in which MOST subst dissolve • protoplain is water with diff mulecules dissolved & several pourcies pourcies ouspended. · Wave melon -> over 92% were of pts · Herbacous plans - only 10-15%, FRESHWE as dry matter. e Distribution of water in plant varies suft - mostly consumwater, seed + has water (may oppear Tenes that plants -- tale up hure amt of water most lost to + Transpirarin. air thru evop. Complant aborbs, 3 l of water a day from leaves mulas oplant absorbs, equal to its own wt in a 5 hrs. * Because of high demand -> waver is often limiting factor for opening " producis vity in agricultural natural en Vivon. Whater Pokential:- concept fundamental to understanding water movement.

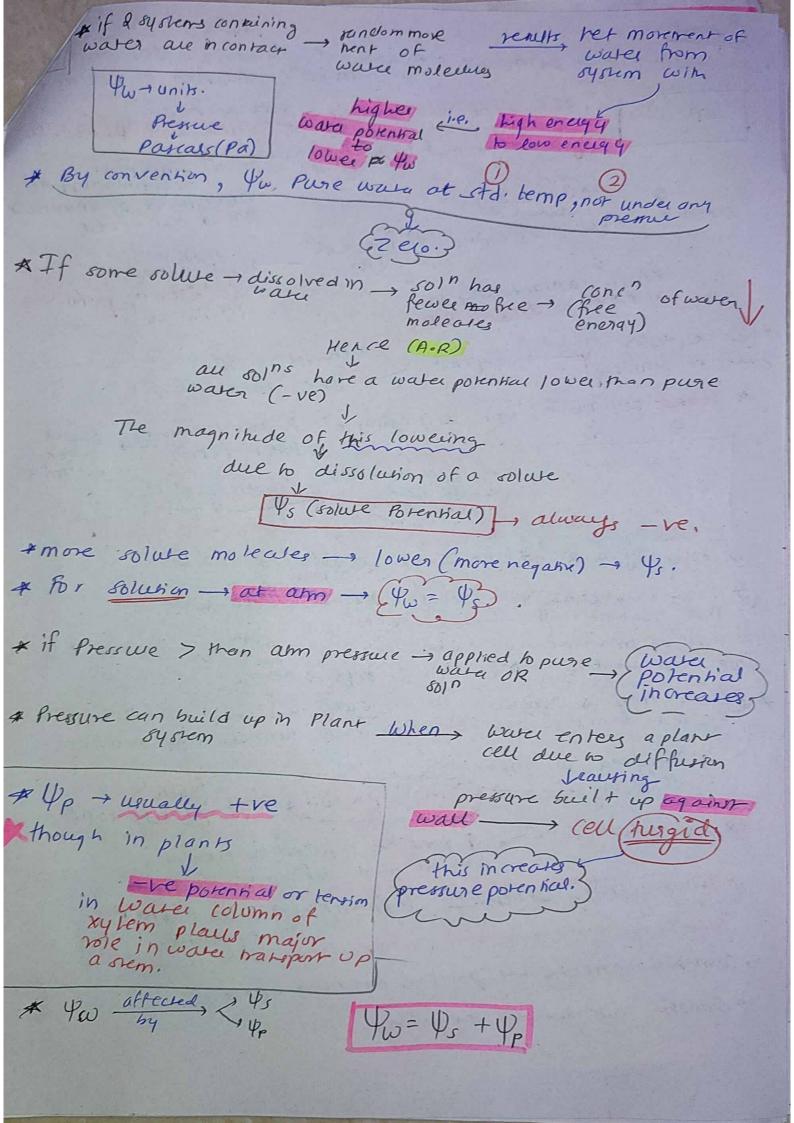
* Two main components that determine the potential (b)

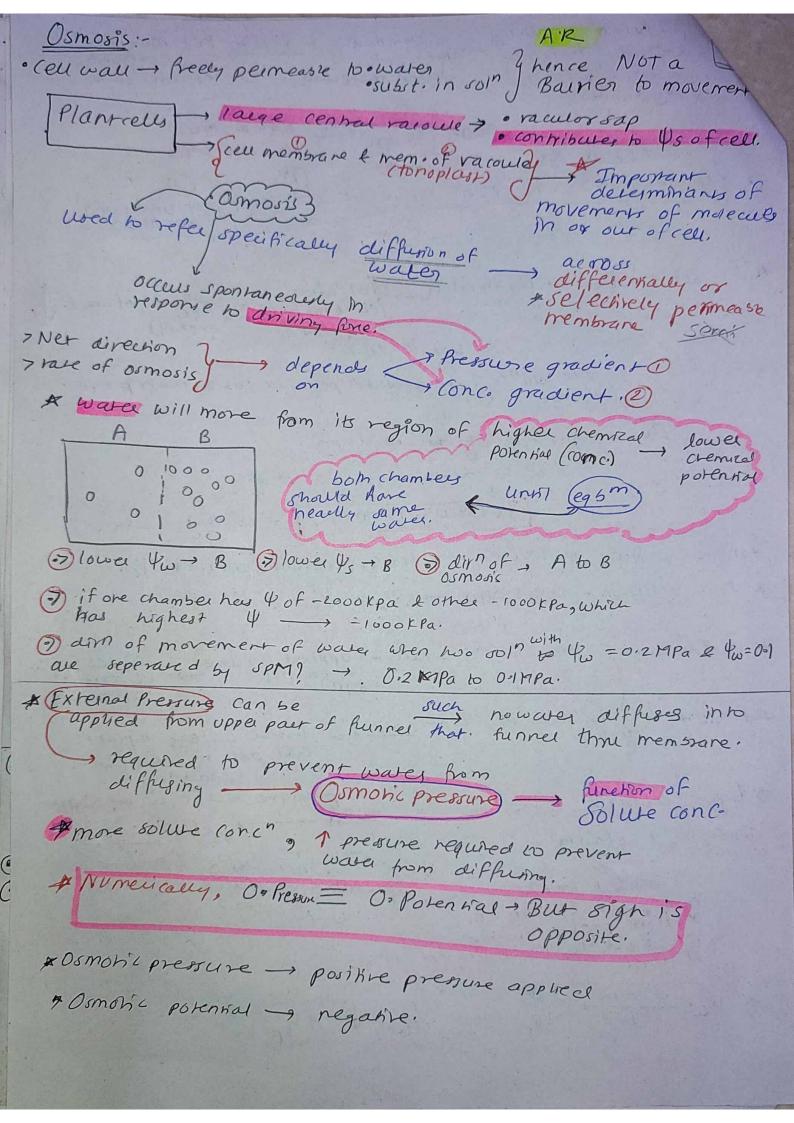
Pressure (4)

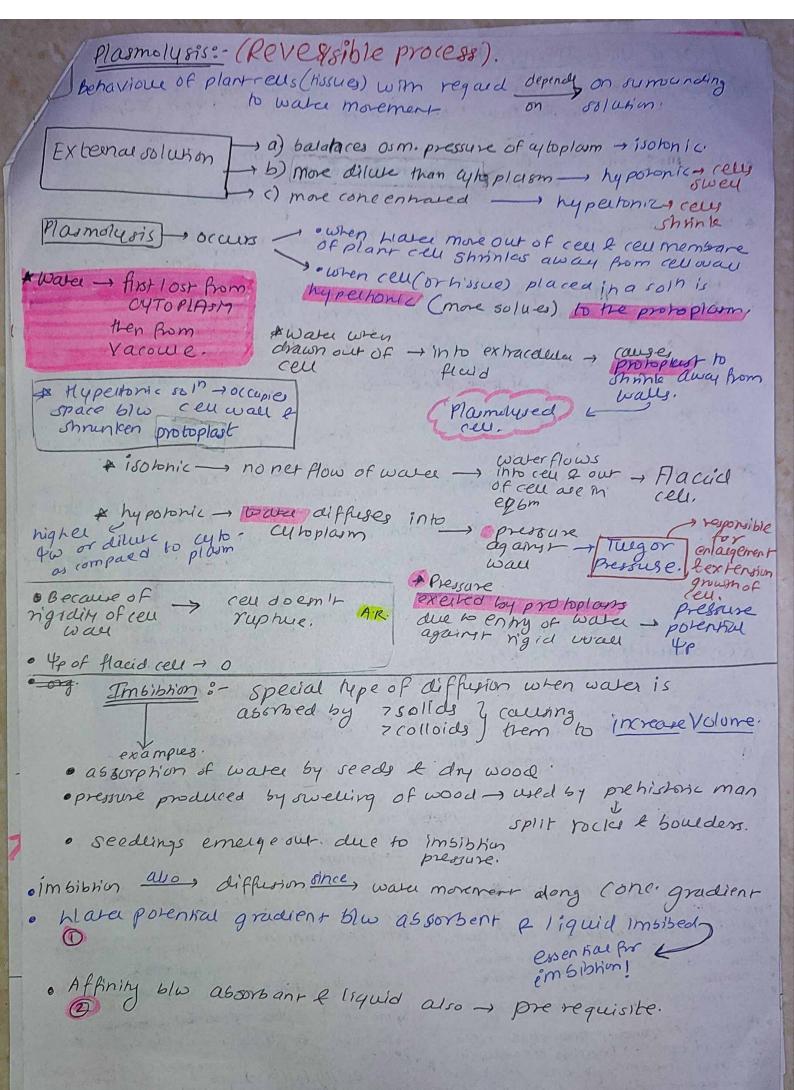
Potential (4)) ware molecules possess, k.E. in lig & gaseous Bm they in random 1.e. both & rapid notion 1.e. both & rapid of Greater the conc. of wareing Greater is its Kit. water pokential Hence. (A.R.)

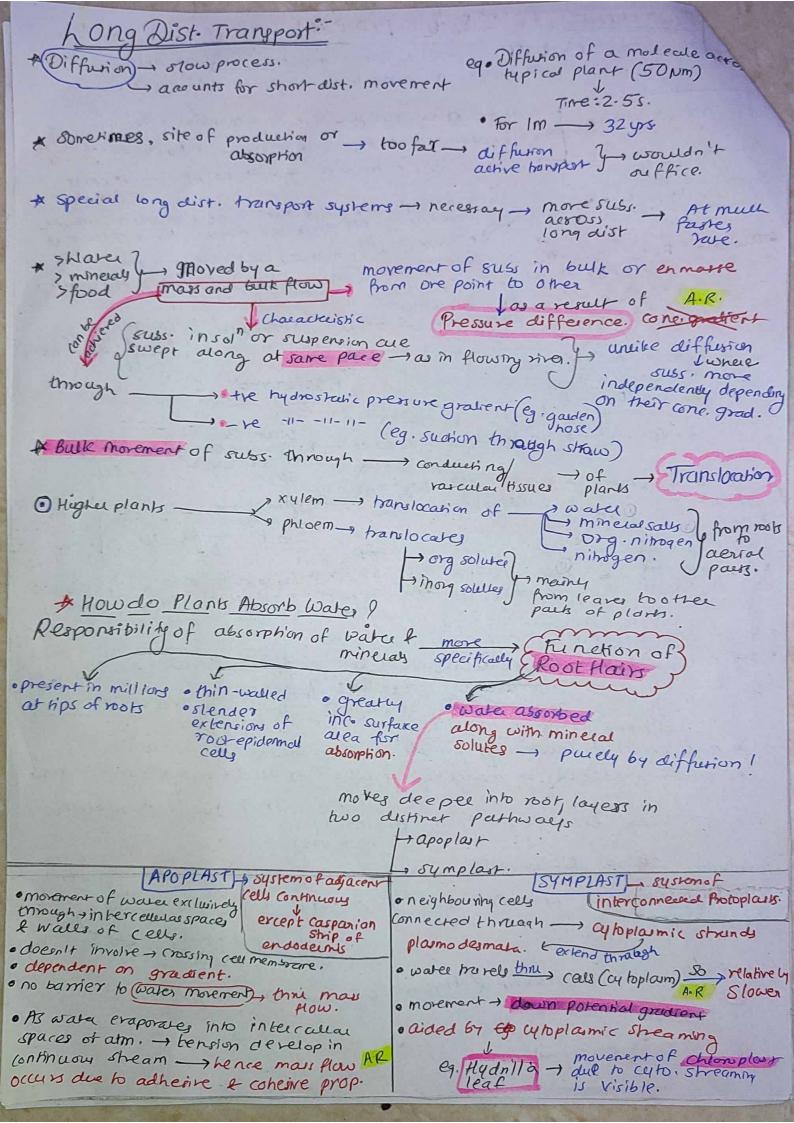
* Pure vare win have

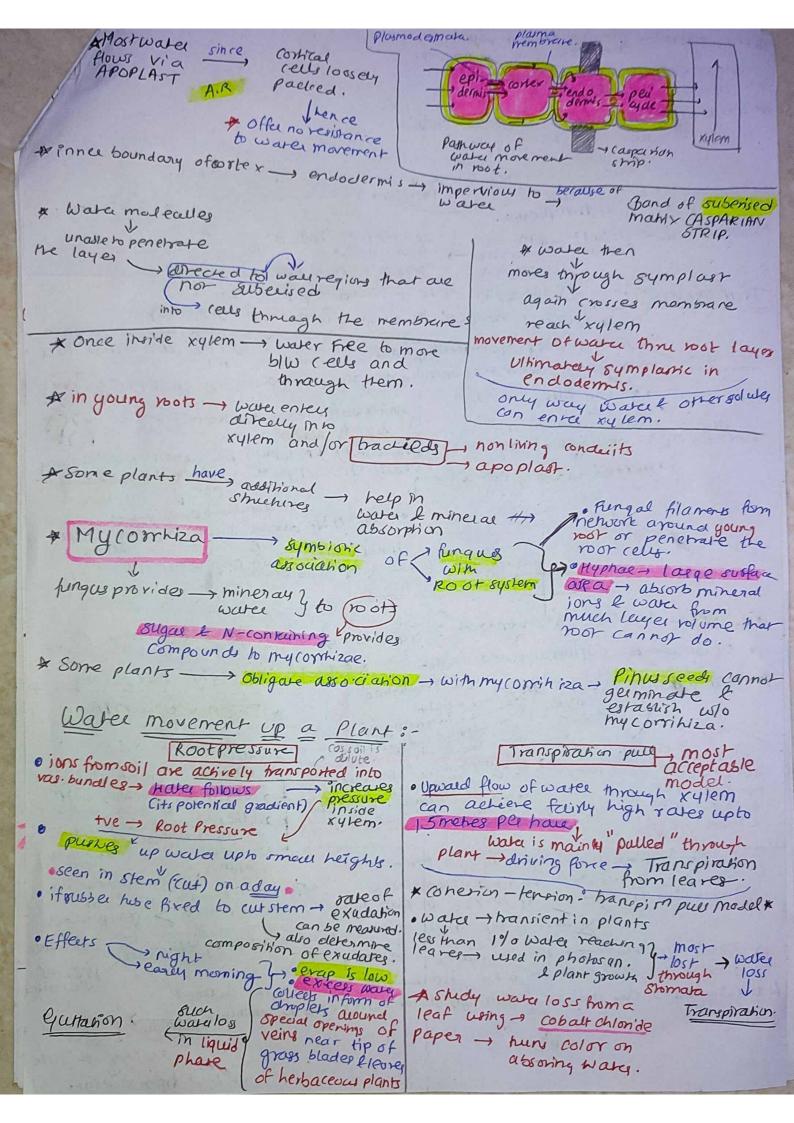
grearest ware potential. Zero

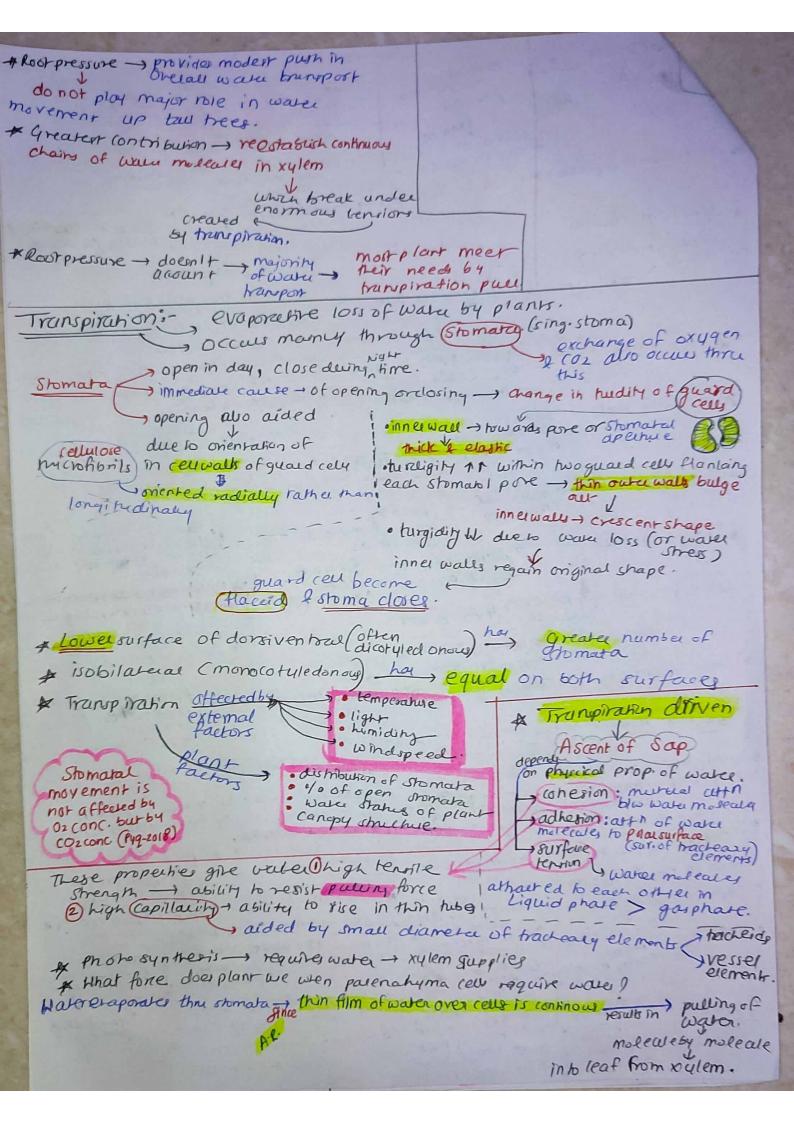


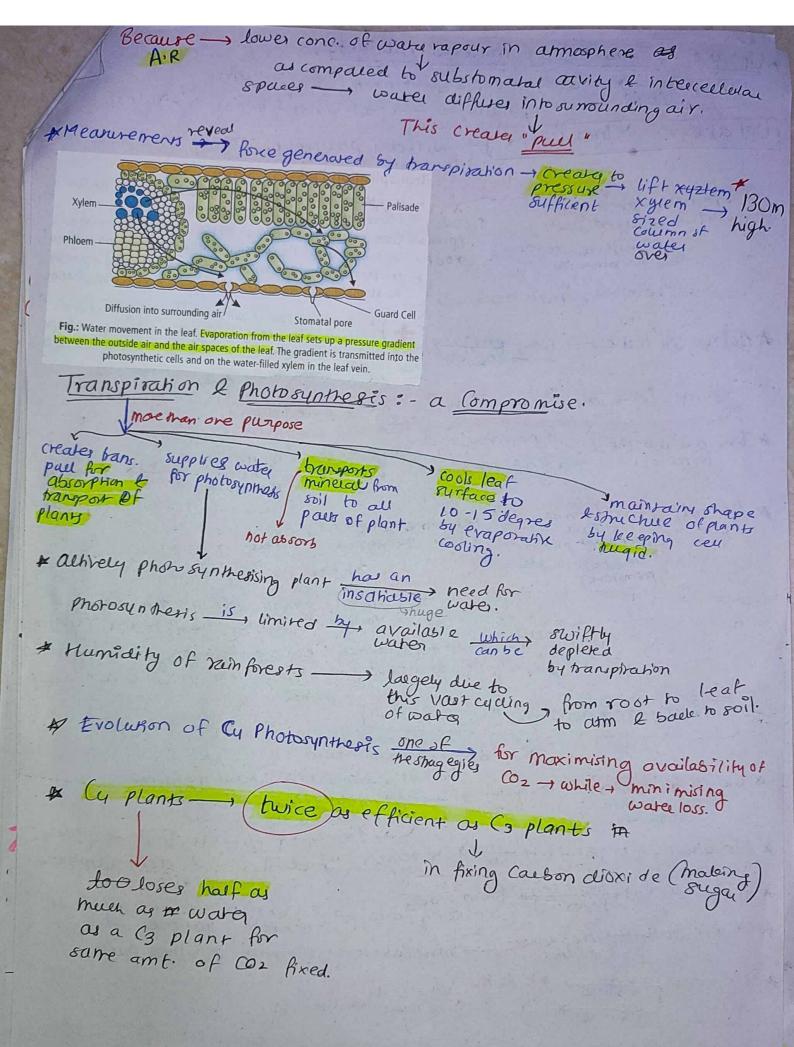


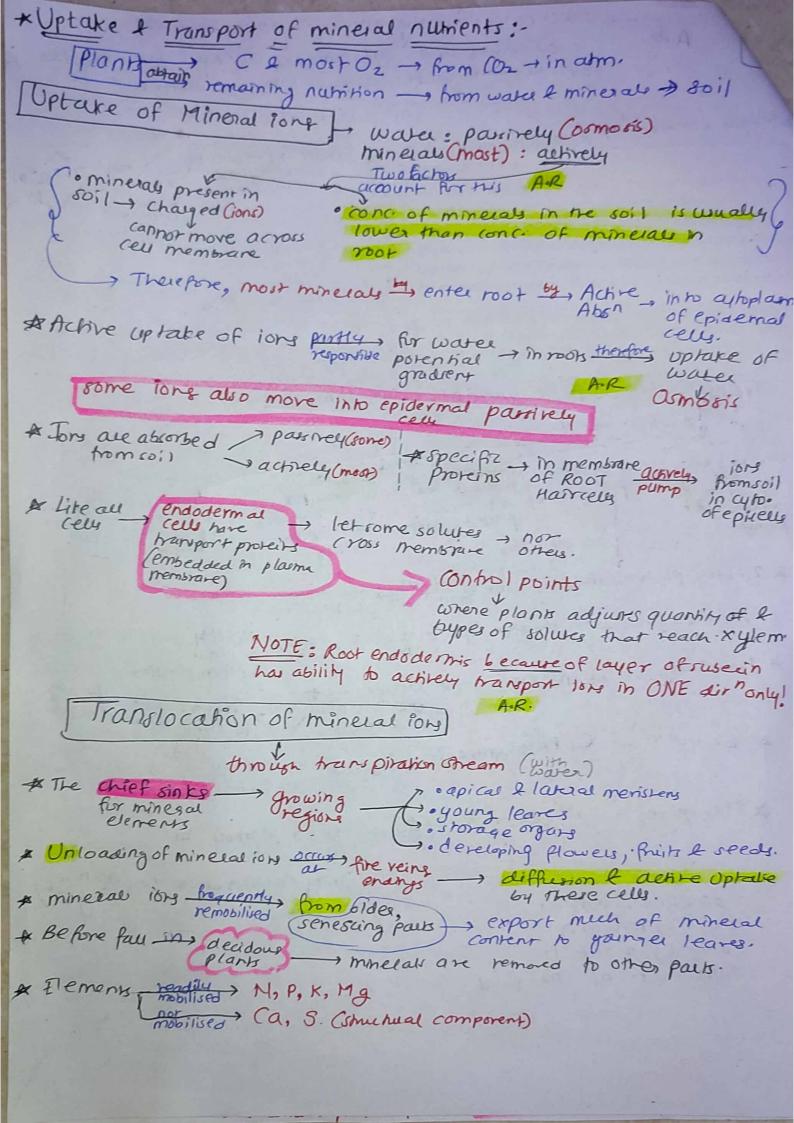


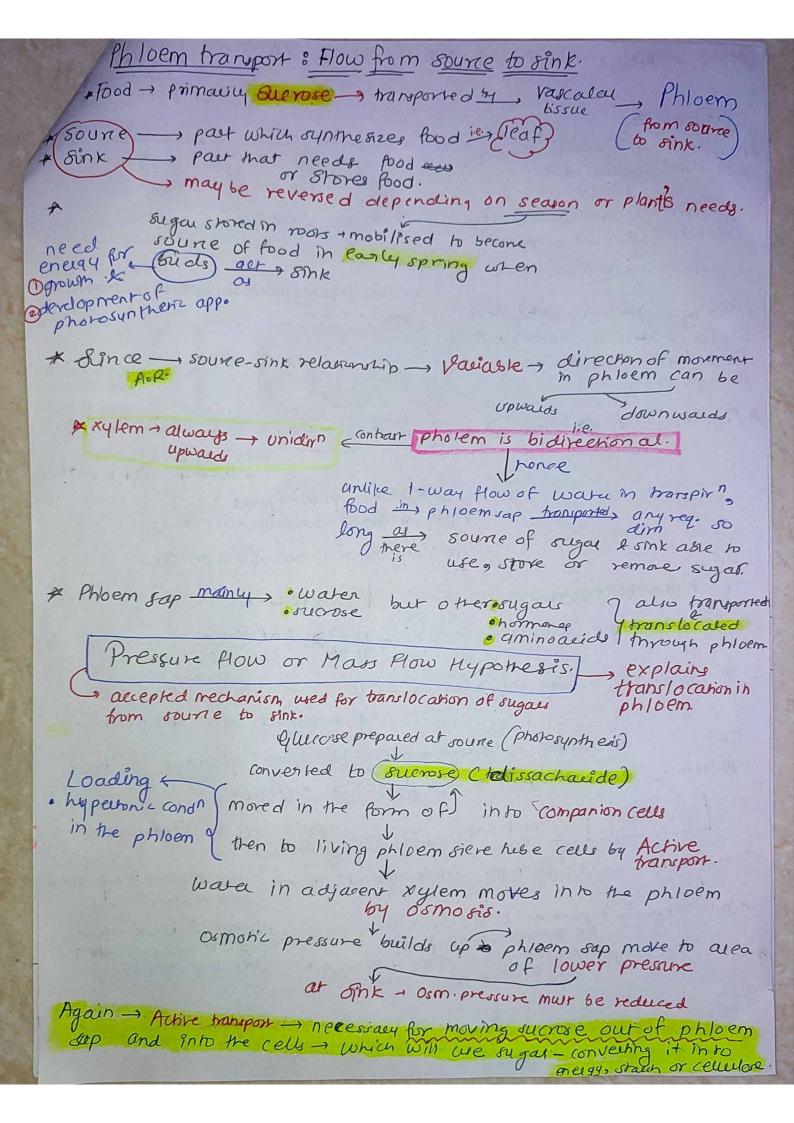












As sugars removed - asmoric pressure decreases - waves more moves
out of
phloem.
(in xylem) summarised: *movement of sugar in the philoem begins at Sugars leave sieve tubes; water follows by osmosis Source + where sugar are loaded (actively transported) into sieve hise.e. Sugar solution flows water follows by osmosis to regions of low turgor pressure Loading of phloem sets up a Water potential gradient that Sugars leave sieve tube facilitates mass movement in the storage; water follows phoem. Fig.: Diagrammatic presentation of mechanism of translocation * Phloem tissue > composed of sieve tube cell, form long columny with holes in end wall - Sieve plates Cyloplamic strands pass + through holes in sieve plates forming continuous folaments. as hydrostatic pressure in sieve hise increases pressure flow beging & sap motes phroem. at sink incoming sugars -, actively transported out of phloem and removed as comprex carbs. The loss of solute produces - high ware porential in the phioem -, water passes our returning, xylem. Girdling experiment wed to identify hissues through which FOOD is transported (phoem) On free mink - a back up to phloem layer - removed - In absence of downward movement of fred * This exp. - phroem is the hissue responsible for translocation of food movement of food portion of back above ring on stem swallen

· transport tubes place in one dir

(i.e. howards nots)

Khushi Dubey.

after hew weeks.